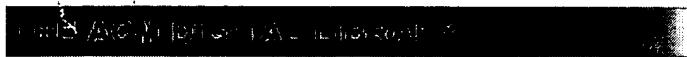



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### 1 [Adapting content to mobile devices: DOM-based content extraction of HTML documents](#)


**documents**

Suhit Gupta, Gail Kaiser, David Neistadt, Peter Grimm

 May 2003 **Proceedings of the 12th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(296.17 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Web pages often contain clutter (such as pop-up ads, unnecessary images and extraneous links) around the body of an article that distracts a user from actual content. Extraction of "useful and relevant" content from web pages has many applications, including cell phone and PDA browsing, speech rendering for the visually impaired, and text summarization. Most approaches to removing clutter or making content more readable involve changing font size or removing HTML and data components such as image ...

**Keywords:** DOM trees, HTML documents, accessibility, content extraction, reformatting, speech rendering

### 2 [Infrastructure: Adding a fourth dimension to three dimensional virtual spaces](#)



Robina E. Hetherington, John P. Scott

 April 2004 **Proceedings of the ninth international conference on 3D Web technology**

Publisher: ACM Press

Full text available: pdf(336.66 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The development of new standards for distributed data offer new possibilities to combine and display multiple types of information. This paper is concerned with an architectural and historical application of X3D and XML to objects, such as buildings, which have an organic quality and tend to evolve over time. The display of a 3D computer model does not always adequately describe the building or artifact and additional data are often required. This paper describes and evaluates techniques for the ...

**Keywords:** Interactive 3D Graphics, X3D, XML, architecture, cultural heritage, information visualization

### 3 [Web-based tools, systems and environments: A logic-based approach for automatic synthesis and maintenance of web sites](#)




*[Handwritten signature]* 2/23/06

-  João Cavalcanti, Wamberto Vasconcelos  
 July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering SEKE '02**

**Publisher:** ACM Press

Full text available:  pdf(194.23 KB) Additional Information: [full citation](#), [abstract](#), [references](#)


In this paper we introduce and justify the use of high-level specifications for synthesising and managing Web sites. Ours is a declarative approach employing computational logic for representing information and knowledge and also for generating the actual site in a format suitable for browsing. Additionally, our specifications contain definitions of logic-based agents that are constructed as part of the synthesis of the Web site specification and can be employed to automate the maintenance of pa ...

- 4 Broadcast and on-line cultural heritage: Broadcast technologies for disseminating cultural heritage 

John Cosmas, Take Itegaki, Kannan Krishnapillai, Alan Lucas, Mohammed Akhtar, Graham Thomas, Jigna Chandaria, Wolfgang Putz, Andre Everts, Michael Probst, Peter Stammnitz, Jens Guether, Wolfram Liebsch, Gerhard Stoll, Christoph Dosch Reiner Socker, Chris Brendes, Ronald Mies, Dick Van Smirren, Benoit Mory, Nicolas Santini, Alan Pearmain, Yakup Paker, Mounia Lalmas, Damien Parwporth, Ekaterina Moutogianni, Gunn Klungsoeyr, Lena Pedersen, Pers-Steinar Hansen, Klaus Illgner

November 2001 **Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage**

**Publisher:** ACM Press

Full text available:  pdf(1.03 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper introduces the System for Advanced Multimedia Broadcast and IT Services (SAMBITS). It consists of a Studio, Server and TV Terminal system for broadcasting audio/video TV content enhanced by 3D graphics, Internet pages, database indexing and sub-image streaming. It describes two scenarios program for disseminating cultural heritage. The readers are invited to imagine how this system could be used to prepare programs for disseminating archaeology. The paper describes the Studio and Serv ...

- 5 Papers: The design of auditory user interfaces for blind users 

Hilko Donker, Palle Klante, Peter Gorny

October 2002 **Proceedings of the second Nordic conference on Human-computer interaction NordiCHI '02**

**Publisher:** ACM Press

Full text available:  pdf(3.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Previous screen readers provide blind WWW-users only with the textual contents of the web pages, but exclude the access to important information coded in the layout of web pages. The approach we introduce here shall overcome the layout barrier of webpages with the help of three-dimensionally auditory objects ("hearcons") which are positioned in an auditory interaction realm (AIR). The elements of a webpage are reproduced in the AIR by a reference model ("torch metaphor"). In a first detailed inve ...


**Keywords:** accessibility, accessible internet, auditory interaction objects, barrier free GUI, binaural perception, blind users, spatialized sounds, visually impaired users

- 6 e-Ghosts: leaving virtual footprints in ubiquitous workspaces 

Michael Vernik, Steven Johnson, Rudi Vernik

January 2004 **Proceedings of the fifth conference on Australasian user interface - Volume 28 CRPIT '04**

**Publisher:** Australian Computer Society, Inc.

Full text available:  pdf(232.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Ubiquitous workspaces are future media-rich environments that employ new forms of operating systems and services to coordinate and manage interactions between people, multiple display surfaces, information, personal devices, and workspace applications. e-Ghosts is a meta application which makes novel use of workflow to support the coordination and orchestration of briefings and demonstrations within a ubiquitous workspace. This paper describes this new class of application and discusses a range ...

**Keywords:** human computer interaction, ubiquitous computing, workspace orchestration

## 7 Understanding and reducing web delays

Kevin Curran, Connor Duffy

March 2005 **International Journal of Network Management**, Volume 15 Issue 2

**Publisher:** John Wiley & Sons, Inc.

Full text available:  pdf(133.73 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Over the years the number of web users has increased dramatically unfortunately leading to the inherent problem of congestion. This can affect each user's surfing experience. This paper investigates download times associated with a web request, identifies where delays occur, and provides guidelines which can be followed by web developers to enable a faster and more efficient download and service for their users.

## 8 Scheme-based web programming as a basis for a CS0 curriculum



Timothy J. Hickey

March 2004 **ACM SIGCSE Bulletin , Proceedings of the 35th SIGCSE technical symposium on Computer science education SIGCSE '04**, Volume 36 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(93.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The thesis of this paper is that Scheme-based web programming is a worthy organizing topic for CS0 computer literacy courses. We describe an approach to introducing non-science majors to Computer Science by teaching them to write webpages using HTML and CSS and to also write applets and servlets using Scheme. The programming component of our approach is completed in about nine weeks of a thirteen week course, leaving time for a treatment of more traditional CS0 topics such as intellectual proper ...

**Keywords:** CSS, HTML, applets, curriculum, non-majors, pedagogy, scheme, servlets

## 9 Hypermedia semantics: Finding the story: broader applicability of semantics and discourse for hypermedia generation



Lloyd Rutledge, Martin Alberink, Rogier Brussee, Stanislav Pokraev, William van Dieten, Mettina Veenstra

August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**

**Publisher:** ACM Press

Full text available:  pdf(396.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Generating hypermedia presentations requires processing constituent material into coherent, unified presentations. One large challenge is creating a generic process for producing hypermedia presentations from the semantics of potentially unfamiliar domains. The resulting presentations must both respect the underlying semantics and appear as coherent, plausible and, if possible, pleasant to the user. Among the related unsolved

problems is the inclusion of discourse knowledge in the generation pro ...

**Keywords:** RDF, SMIL, clustering, concept lattices, discourse, hypermedia, narrative, semantics

# **10 Analysis and testing of Web applications**

Filippo Ricca, Paolo Tonella

July 2001 **Proceedings of the 23rd International Conference on Software Engineering**

**Publisher:** IEEE Computer Society

Full text available:  pdf(167.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
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The economic relevance of Web applications increases the importance of controlling and improving their quality. Moreover, the new available technologies for their development allow the insertion of sophisticated functions, but often leave the developers responsible for their organization and evolution. As a consequence, a high demand is emerging for methodologies and tools for quality assurance of Web based systems.

In this paper, a UML model of Web applications is proposed for their ...

**Keywords:** UML modeling, code analysis, reverse engineering, testing, web applications

# **11 User interfaces for integrating web-based information: Evaluation and evolution of a browse and search interface: relation browser**

Junliang Zhang, Gary Marchionini

May 2005 **Proceedings of the 2005 national conference on Digital government research dg.o2005**

**Publisher:** Digital Government Research Center

Full text available:  pdf(405.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present in this paper the design and an evaluation of a novel interface called the Relation Browser++ (RB++) for searching and browsing large information collections. RB++ provides visualized category overviews of an information space and allows dynamic filtering and exploration of the result set by tightly coupling the browsing and searching functions. A user study was conducted to compare the effectiveness, efficiency and user satisfaction of completing various types of searching and browsi ...

**Keywords:** browse, category overview, dynamic query, interactive system, interface design, search, visualization

# **12 The battle against phishing: Dynamic Security Skins**



Rachna Dhamija, J. D. Tygar

July 2005 **Proceedings of the 2005 symposium on Usable privacy and security SOUPS '05**


**Publisher:** ACM Press

Full text available:  pdf(398.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Phishing is a model problem for illustrating usability concerns of privacy and security because both system designers and attackers battle using user interfaces to guide (or misguide) users. We propose a new scheme, Dynamic Security Skins, that allows a remote web server to prove its identity in a way that is easy for a human user to verify and hard for an attacker to spoof. We describe the design of an extension to the Mozilla Firefox browser that implements this scheme. We present two novel inte ...

### 13 Data extraction: Fully automatic wrapper generation for search engines



 Hongkun Zhao, Weiyi Meng, Zonghuan Wu, Vijay Raghavan, Clement Yu  
May 2005 **Proceedings of the 14th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available:  pdf(315.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

When a query is submitted to a search engine, the search engine returns a dynamically generated result page containing the result records, each of which usually consists of a link to and/or snippet of a retrieved Web page. In addition, such a result page often also contains information irrelevant to the query, such as information related to the hosting site of the search engine and advertisements. In this paper, we present a technique for automatically producing wrappers that can be used to extr ...

**Keywords:** information extraction, search engine, wrapper generation

### 14 Technical papers: design recovery: Architecture recovery of web applications



 Ahmed E. Hassan, Richard C. Holt  
May 2002 **Proceedings of the 24th International Conference on Software Engineering**

**Publisher:** ACM Press

Full text available:  pdf(1.23 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

Web applications are the legacy software of the future. Developed under tight schedules, with high employee turn over, and in a rapidly evolving environment, these systems are often poorly structured and poorly documented. Maintaining such systems is problematic. This paper presents an approach to recover the architecture of such systems, in order to make maintenance more manageable. Our lightweight approach is flexible and retargetable to the various technologies that are used in developing web ...

### 15 Pervasive documentation systems II: The aspect-oriented web



 John Stamey, Bryan Saunders, Simon Blanchard  
September 2005 **Proceedings of the 23rd annual international conference on Design of communication: documenting & designing for pervasive information SIGDOC '05**

**Publisher:** ACM Press


Full text available:  pdf(220.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We examine Aspect-Oriented Programming (AOP) as it applies to web development. XHTML was designed to separate form from content, a fundamental principle of separation of concerns in AOP. Cascading Stylesheets and Javascript naturally provide support for AOP. The release of AOPHP (Aspect-Oriented PHP) provides a more traditional way to implement AOP in the LAMP (Linux, Apache, MySQL, PHP) web development environment, weaving advice code into PHP source code prior to the PHP pre-processing step.

**Keywords:** AOP-like behavior, AOPHP, LAMP, aspect-oriented programming, separation of concerns, web development

### 16 Shape-based retrieval and analysis of 3D models



 Thomas Funkhouser, Michael Kazhdan  
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

**Publisher:** ACM Press

Full text available:  pdf(12.56 MB) Additional Information: [full citation](#), [abstract](#)

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CAD, molecular biology, and computer graphics. As the number of 3D models grows, there is an increasing need for computer algorithms to help people find the interesting ones and discover relationships between them. Unfortunately, traditional text-based search techniques are not always effective for 3D models, especially when queries are geometric in nature (e.g., find me objects that fit into thi ...

### 17 Informative art: using amplified artworks as information displays



Johan Redström, Tobias Skog, Lars Hallnäs

April 2000 **Proceedings of DARE 2000 on Designing augmented reality environments**

**Publisher:** ACM Press

Full text available: pdf(3.56 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

*Informative art* is computer augmented, or amplified, works of art that not only are aesthetical objects but also information displays, in as much as they dynamically reflect information about their environment. Informative art can be seen as a kind of *slow technology*, i.e. a technology that promotes moments of concentration and reflection. Our aim is to present the design space of informative art. We do so by discussing its properties and possibilities in relation to work on inf ...

**Keywords:** art, augmented and amplified reality, design, information visualisation, ubiquitous computing

### 18 A framework for sharing personal annotations on web resources using XML

Takeshi Sannomiya, Toshiyuki Amagasa, Masatoshi Yoshikawa, Shunsuke Uemura

January 2001 **Australian Computer Science Communications , Proceedings of the workshop on Information technology for virtual enterprises ITVE '01 , Proceedings of the workshop on Information technology for virtual enterprises ITVE '01**, Volume 23 Issue 6

**Publisher:** IEEE Computer Society , IEEE Computer Society , IEEE Computer Society Press

Full text available: pdf(835.34 KB)



[Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this paper, we propose WISPA (Web Indicator by Sharing Personal Annotations) Framework, which aims at mining useful information from communities on the World Wide Web with sharing personal annotations. In WISPA, annotations assigned to web pages on WWW are highly respected, because personal annotations contain each users' opinions or impressions to web pages, and those annotations can be used as essential materials for judging whether an information is important or not. Concretely, the proces ...

**Keywords:** WWW, XLink, XML, XML schema, merged annotation, personal annotation

### 19 blue-c: a spatially immersive display and 3D video portal for telepresence



Markus Gross, Stephan Würmlin, Martin Naef, Edouard Lamboray, Christian Spagno, Andreas Kunz, Esther Koller-Meier, Tomas Svoboda, Luc Van Gool, Silke Lang, Kai Strehlke, Andrew Vande Moere, Oliver Staadt

July 2003 **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 3

**Publisher:** ACM Press

Full text available: pdf(31.68 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We present *blue-c*, a new immersive projection and 3D video acquisition environment for virtual design and collaboration. It combines simultaneous acquisition of multiple live video streams with advanced 3D projection technology in a CAVE™-like environment, creating the impression of total immersion. The blue-c portal currently consists of three rectangular

projection screens that are built from glass panels containing liquid crystal layers. These screens can be switched from a white ...

**Keywords:** 3D Video, graphics hardware, real-time graphics, spatially immersive displays, virtual environments

20 WebCQ-detecting and delivering information changes on the web



Ling Liu, Calton Pu, Wei Tang

November 2000 **Proceedings of the ninth international conference on Information and knowledge management**

**Publisher:** ACM Press

Full text available: pdf(835.31 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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L1	738	715/500.1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 17:37
L2	1967	715/513	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 17:37
L3	12	"multi-image" and "markup language"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 17:37
L4	456	image and selection and display and web\$2page and "markup language" and file	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 17:37
L5	346	image and selection and display and web\$2page and "markup language" and file and @ad<"20040129"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 17:37
L6	8	"multiple images" and selection and display and web\$2page and "markup language" and file and @ad<"20040129"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 17:37
L7	8658	image and format and select and (webpage or "web page")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 17:37
L8	3900	image and format and select and (webpage or "web page") and "markup language" and display	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 17:37



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L9	2	image and format and select and (webpage or "web page") and "markup language" and display and "multi-image file"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 17:37
L10	5	image and format and select and (webpage or "web page") and "markup language" and display and "multi-image"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 17:37
L11	1474	image and format and select and header and (webpage or "web page") and "markup language" and display	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 17:37
L12	13	image and format and select and header and (webpage or "web page") and "markup language tag" and display	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 17:37
L13	1335	file and "multiple image"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 17:37
L14	11	file and "multiple image" and "primary image" and "secondary image"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 17:37
L15	5	file and "multiple image" and selection and webpage	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 17:37
L16	2425	file and "multiple image" and select	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 17:37

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L17	463	file and "multiple image" and select and (webpage or "web page")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 17:37
L18	11	file and "multiple image" and select and (webpage or "web page") and jpg and gif and tiff	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 17:37
L19	39	file and "multiple image" and select and (webpage or "web page") and jpg and gif	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 17:37
L20	11	"multi-image file"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 17:37
L21	280	"multiple images" and file and "web page" and display and HTML	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 17:37
L22	0	"multiple images" and file and "web page" and display and HTML and jpg and giff	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 17:37
L23	33	"multiple images" and file and "web page" and display and HTML and "image type"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 17:37
L24	2	"20020089549"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 17:37

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L25	2	"20050198571"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 17:37
L26	2	"20050185055"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 17:37
L27	2	"20040049598"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 17:37